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Previous Article

Next Article

Back to Table of Contents

Back to the Issues List

Back to the Journal Index

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Bioorganic & Medicinal Chemistry Letters, Vol. 9, Issue: 6, pp. 803-806, March 22, 1999

Title:

A new class of anti-HIV agents: synthesis and activity of conjugates of HIV protease inhibitors with a reverse transcriptase inhibitor

Authors:

Kimura, Tooru^a; Matsumoto, Hikaru^a; Matsuda, Takashi^a; Hamawaki, Tomonori^a; Akaji, Kenichi^a; Kiso, Yoshiaki^a

Affiliations:

a. Department of Medicinal Chemistry, Kyoto Pharmaceutical University, Yamashina-ku, Kyoto 607-8414, Japan

Address:

(No address specified)

Keywords:

Abstract (English):

Conjugates of HIV protease inhibitors with a reverse transcriptase inhibitor were synthesized, which expressed excellent antiviral activity compared with that of the individual components. The remarkable antiviral activity of the conjugated compounds may be due to their penetration into the cell and later splitting into two different classes of anti-HIV agents.

Publisher:

Elsevier Science

Language of Publication:

English

Item Identifier:

S0960-894X(99)00089-X

Publication Type:

Short Communication

ISSN:

0960-894x

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1007342 Page 2 07/15/2002

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L1STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1

STR

1007342 Page 3 07/15/2002

G1 [@1],[@2],[@3],[@4],[@5],[@6],[@7]

G2 Cy,Ak

G3 [@1],[@2],[@7]

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 08:53:08 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 70 TO ITERATE

100.0% PROCESSED 70 ITERATIONS 0 ANSWERS

SEARCH TIME: 00.00.06

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 899 TO 1901

PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 full

FULL SEARCH INITIATED 08:53:17 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1454 TO ITERATE

100.0% PROCESSED 1454 ITERATIONS SEARCH TIME: 00.00.13 0 ANSWERS

L3 0 SEA SSS FUL L1

Uploading 10007342.str

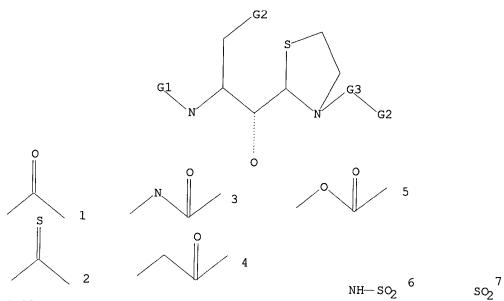
1007342 Page 4 07/15/2002

L4 STRUCTURE UPLOADED

=> d

L4 HAS NO ANSWERS

L4 STF



G1 [@1],[@2],[@3],[@4],[@5],[@6],[@7]

G2 Cy,Ak

G3 [@1],[@2],[@7]

Structure attributes must be viewed using STN Express query preparation.

=> s 14

SAMPLE SEARCH INITIATED 08:57:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

100.0% PROCESSED 0 ITERATIONS

---- 0 10 11ERVII

0 ANSWERS

SEARCH TIME: 00.00.02

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

PROJECTED ITERATIONS:

PROJECTED ANSWERS:

BATCH **COMPLETE**

0 TO 0

TO 0

L5 0 SEA SSS SAM L4

=> s 14 full

FULL SEARCH INITIATED 08:57:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 ITERATIONS 0 ANSWERS SEARCH TIME: 00.00.07

1007342 Page 5 07/15/2002

L6

0 SEA SSS FUL L4

=>

Uploading 10007342.str

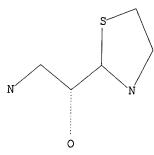
L7

STRUCTURE UPLOADED

=> d

L7 HAS NO ANSWERS

L7



G1

G2 Cy,Ak

G3

Structure attributes must be viewed using STN Express query preparation.

=> s 17

SAMPLE SEARCH INITIATED 09:02:11 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 203 TO ITERATE

100.0% PROCESSED

203 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS:

3206 TO 4914

PROJECTED ANSWERS:

0 TO

L8

0 SEA SSS SAM L7

=> s 17 full

FULL SEARCH INITIATED 09:02:17 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 3771 TO ITERATE

100.0% PROCESSED 3771 ITERATIONS

7 ANSWERS

SEARCH TIME: 00.00.02

L9

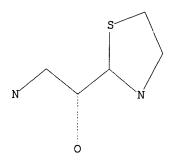
7 SEA SSS FUL L7

Uploading 10007342.str

1007342 Page 6 07/15/2002

L10 STRUCTURE UPLOADED

=> dL10 HAS NO ANSWERS L10



Structure attributes must be viewed using STN Express query preparation.

=> s 110 full

FULL SEARCH INITIATED 09:02:52 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED -3771 TO ITERATE

100.0% PROCESSED 3771 ITERATIONS SEARCH TIME: 00.00.01

7 ANSWERS

L11 7 SEA SSS FUL L10

=> fil caplus

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1007342 Page 7 07/15/2002

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=> s 111 L12 2 L11

=> d ibib abs hitstr 1-2

1007342 Page 8 07/15/2002

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2000:158985 CAPLUS DOCUMENT NUMBER: 132:347886 Synthesis of amino aci

132:347886
Synthesis of amino acid-derived thiazoles from enantiopure N-protected .alpha.-amino glyoxals Groarke, Michelle; McKervey, M. Anthony; Monorieff, Hazel, Nieuwenhuyzen, Mark School of Chemistry, The Queen's University, Belfast, BT9 SAG, UK
Tetrahadron Letters (2000), 41(8), 1279-1282
CODEN: TELEAY; ISSN: 0040-4039
Elsevier Science Ltd. AUTHOR (S):

CORPORATE SOURCE:

SOURCE:

Elsevier Science Ltd.

PUBLISHER: DOCUMENT TYPE: LANGUAGE: OTHER SOURCE(S): GI

English CASREACT 132:347886

Several novel thiazoles with side chains derived from natural amino acids and a dispeptide were synthesized from N-protected .alpha.-amino glyowals and cysteine. For example, CbzNNCH(CHZPh)COCH.NZ was oxidized with DMD (dimethyldioxicrane) in acetone to give glyowal CbzNHCH(CHZPh)COCHO. The glyoxal was reacted with N-Cys-CMe.cntdot.HCl in presence of KNCO3 in StOH/HZO to give the intermediate thiazolidine 1. Next, dehydrogenation of I was performed with NNO2 in CHZC12 to give the product thiazole II without any racemization at the amino acid center. 268747-12-2P 268747-13-3P 268747-14-4P 268747-15-5P 268747-16-6P 268747-18-8P
RL: RCT (Reactant) SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (synthesis of amino acid-derived thiazoles from chiral N-protected .alpha.-amino glyoxals) 268747-12-2 CAPLUS Carbamic acid, ([15]-2-methyl-1-(2-thiazolidinylcarbonyl)propyl]-, phenylmethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS (Continued)
RN 268747-16-6 CAPLUS
(Continued)
RN 268747-16-6 CAPLUS
((phenylmethoxy) carbonyl) amino]propyl] -, methyl ester, (4R) - (9CI) (CA INDEX NAME)

268747-18-8 CAPLUS

ZOBY 4'-18-8 CAPUIS
4-Thiazolidinecarboxylic acid, 2-[(25)-1-oxo-2-[[(25)-1-oxo-3-phenyl-2[[(phenylmethoxy)carbonyl]amino]propyl]amino]propyl]-, methyl ester, (4R)(9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT 13

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

268747-13-3 CAPLUS
4-Thiazolidinecarboxylic acid, 2-[(2S)-3-methyl-1-oxo-2-[([chenylmethoxy]carbonyl]amino]butyl]-, methyl ester, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

268747-14-4 CAPLUS
4-Thiazolidinecarboxylic acid, 2-[(2S)-1-oxo-2[([chenylmethoxy)carbonyl]amino]propyl]-, methyl ester, (4R)- [9CI) (CA
INDEX NAME)

Absolute stereochemistry.

268747-15-5 CAPLUS
4-Thiazolidinecarboxylic acid, 2-[(2S,3S)-3-methyl-1-oxo-2-[[(phenylmethoxy)carbonyl]amino]pentyl]-, methyl ester, (4R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1997:459247 CAPLUS
DOCUMENT NUMBER: 127:161774
TITLE: Unexpected rearrangeme
AUTHOR(S): Mah, Heduck: Dal Nam,
CORPORATE SOURCE: Department of Chemistr 127:161774
Unexpected rearrangement of a dihydro-1,4-thiazine
Mah, Heduck: Dal Nam, Kee: Hahn, Hoh-Gyu
Department of Chemistry, Kyonggi University, Suwon,
440-270, S. Korea
Bulletin of the Korean Chemical Society (1997), 18(6),
563-564
CODEN: BKCSDE: ISSN: 0253-2964
Korean Chemical Society
Journal

SOURCE:

PUBLISHER: DOCUMENT TYPE: LANGUAGE: GI Journal English

AB Autoxidn. of dihydro-1,4-thiazine hydrochloride I gave AcSCH2CH2NHCOCONHPh and thiazolidine II.

19327-75-2P

RL: SPN (Synthetic preparation); PREP (Preparation) (rearrangement of a dihydro-1,4-thiazine in autoxidn.) 193527-75-2 CAPLUS

2-Thiazolidineacetamide, 2-acetyl-.alpha.-oxo-N-phenyl- (9CI) (CA INDEX

1007342 Page 9 07/15/2002

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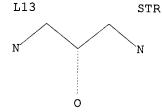
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L13 STRUCTURE UPLOADED

=> d L13 HAS NO ANSWERS



Structure attributes must be viewed using STN Express query preparation.

=> s 113 SAMPLE SEARCH INITIATED 09:04:34 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED - 14481 TO ITERATE

6.9% PROCESSED 1000 ITERATIONS INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED) SEARCH TIME: 00.00.01

50 ANSWERS

1007342 Page 10 07/15/2002

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 282425 TO 296815

PROJECTED ANSWERS: 38407 TO 43845

L14 50 SEA SSS SAM L13

=> s 113 full

FULL SEARCH INITIATED 09:04:38 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 285563 TO ITERATE

100.0% PROCESSED 285563 ITERATIONS SEARCH TIME: 00.00.06

40666 ANSWERS

L15 40666 SEA SSS FUL L13

=>

Uploading 10007342.str

L16 STRUCTURE UPLOADED

=> d

L16 HAS NO ANSWERS L16 STR

G1 [@1],[@2],[@3]

Structure attributes must be viewed using STN Express query preparation.

=> s 116 subset=115 full FULL SUBSET SEARCH INITIATED 09:06:47 FILE 'REGISTRY' 1007342 Page 11 07/15/2002

FULL SUBSET SCREEN SEARCH COMPLETED - 16882 TO ITERATE

100.0% PROCESSED 16882 ITERATIONS

3479 ANSWERS

SEARCH TIME: 00.00.03

L17 3479 SEA SUB=L15 SSS FUL L16

=>

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L18 STRUCTURE UPLOADED

=> d

L18 HAS NO ANSWERS L18

0

G1 [@1], [@2], [@3]

Structure attributes must be viewed using STN Express query preparation.

=> s l18 subset=l17 full FULL SUBSET SEARCH INITIATED 09:07:34 FILE 'REGISTRY' FULL SUBSET SCREEN SEARCH COMPLETED - 3039 TO ITERATE

100.0% PROCESSED 3039 ITERATIONS SEARCH TIME: 00.00.02

2849 ANSWERS

L19 2849 SEA SUB=L17 SSS FUL L18

=>

Uploading 10007342.str

L20 STRUCTURE UPLOADED

=> d

L20 HAS NO ANSWERS

L20 ST

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 120 subset=119 full

FULL SUBSET SEARCH INITIATED 09:09:11 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED - 2849 TO ITERATE

100.0% PROCESSED 2849 ITERATIONS

2666 ANSWERS

9 ANSWERS

SEARCH TIME: 00.00.05

L21 2666 SEA SUB=L19 SSS FUL L20

=>

Uploading 10007342.str

L22 STRUCTURE UPLOADED

=> d

L22 HAS NO ANSWERS

L22

STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> s 122 subset=121 full

FULL SUBSET SEARCH INITIATED 09:12:18 FILE 'REGISTRY'

SCREENING

FULL SUBSET SCREEN SEARCH COMPLETED - 2666 TO ITERATE

100.0% PROCESSED 2666 ITERATIONS

SEARCH TIME: 00.00.21

L23 9 SEA SUB=L21 SSS FUL L22

=> fil caplus

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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

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1007342 Page 13 07/15/2002

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=> s 123 L24 6 L23

=> d ibib abs hitstr 1-6

1007342 Page 14 07/15/2002

Preparation of heterocyclic sulfonamide inhibitors of

Preparation of heterocyclic sulfonamide inhibitors of aspartyl protease
Tung, Roger D.: Murcko, Mark A.: Bhisetti, Govinda Rao Vertex Pharmaceuticals, Incorporated, USA U.S., 87 pp., Cont.-in-part of U.S. 5,585,397.
CODEN: USXXAM
Patent
English 5 INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:

PATENT NO.	KIND	DATE		APPI	ICATIO	ON NO.	DATE		
US 5783701	A	19980721		115 1	005-30	3460	19950223		
EP 885887	A2	19981223			998-1		19930907		
EP 885887	A3	19990203		Er I	. 330-1.	13321	19930907		
R: AT, BE,								PT,	ΙE
US 5585397	A	19961217		US 1	993-14	12327	19931124		
US 5723490	A	19980303		US 1	995-42	24819	19950419		
US 5977137	A	19991102					19980714		
US 6392046	B1	20020521				9808	19990930		
PRIORITY APPLN. INFO		20020321							
PRIORITY APPLA. INFO	. :				-94198		19920908		
			US	1993	-14232	27 A2	19931124		
			EP	1993	-92142	28 A3	19930907		
			WO	1993	-US845		19930907		
					-39346		19950223		
				1998	-11539	14 A3	19980714		
OTHER SOURCE(S): GI	MA	RPAT 129:1	36097						

The title compds. I $\{A=H, -Ht, -RlHt, (un) \text{ substituted } -Rl-alk(en)yl\}$ R1 = CO, SO2, COCO, OCO, OSO2, NR2SO2, NR2CO, NR2COCO; Ht = (un) substituted cycloalk(en)yl, aryl, (benz) heterocyclyl; R2 = H, alkyl, -alkyl-R7; B = NRZC(R3)2CO; n = 0, 1; R3 = (un) substituted alk(en)yl or cycloalk(en)yl; n = 1, 2; D, D' = R7, (un) substituted alk(en)yl or cycloalk(en)yl; R7 =

L24 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS

160230-76-2 CAPLUS 2,1,3-Benzoxadiazole-4-sulfonamide, N-[(2R,3S)-3-[(dimethylamino)sulfonyl]amino]-2-hydroxy-4-phenylbutyl]-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

160230-78-4 CAPLUS Acetamide, N-[5-[[(2R,3S)-3-[[{2,5-dimethoxyphenyl}sulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-methylpropyl)amino]sulfonyl]-2-fluorophenyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

210537-81-8 CAPLUS
Butanamide, N-{[15,28}-3-{[[4-(acetylamino)phenyl]sulfonyl](2-methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-3,3-dimethyl-2-oxo-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

160230-75-1 CAPLUS
Acetamide, N-[5-[[(2R,35)-3-[[[3-(acetylamino]-4-fluorophenyl]aulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-methylpropyl)amino]sulfonyl]-2-fluorophenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)

1007342 Page 15 07/15/2002

L24 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1997:324829 CAPLUS DOCUMENT NUMBER: 126:343148

AUTHOR(S):

126:343148
Chemical Library Purification Strategies Based on Pranciples of Complementary Molecular Reactivity and Molecular Recognition Flynn, Daniel L.; Crich, Joyce Z.; Devraj, Rajesh V.; Hockerman, Susan L.; Parlow, John J.; South, Michael S.; Woodard, Scott Section of Parallel Medicinal and Combinatorial Chemistry, Searle Discovery Research, St. Louis, MO, 63167, USA
Journal of the American Chemical Society (1997), 119 (21), 4874-4881
CODEN: JACSAT; ISSN: 0002-7863
American Chemical Society
Journal CORPORATE SOURCE:

SOURCE:

PUBLISHER:

DOCUMENT TYPE: Journal English

MENT TYPE: Journal SUAGE: English A new methods. For soln.-phase chem. library synthesis and purifn. is described. This approach applies fundamental properties of complementary mol. reactivity and recognition (CMR/R) as the basis for a general purifn. strategy. Specifically, parallel soln.-phase reactions are purified by resins conty. mol. recognition or mol. reactivity functionalities complementary to those of soln.-phase reactants, reagents, and byproducts. When used in sequential or simultaneous combinations, various CMR/R resins remove excess reactants, reagents, and byproducts or reagents and reaction products, which are isolated in purified form by filtration. Where reactions involve the need to remove byproducts or reagents that do not inherently contain sequestrable functionality, sequestration can be effected by the design and use of tagged reactants or reagents contg. artificially imparted mol. recognition functionality. An extension of this methodol. utilizes CMR/R resins as the "quench phase" instead of a liq.-phase workup commonly used in other library purifn. strategies. Hence, the essential features of complementary mol. reactivity or mol. recognition required for reaction workup are expressed on resins. The CMR/R library purifn. strategy is general and highly amenable to automation. Examples are illustrated with main explations, the Moffatt oxidn. and the reaction of organometallics with carbonyl compds.

[1906-06-1]

190060-06-1

RL: RCT (Reactant); RACT (Reactant or reagent) (chem. library purifin. strategies based on principles of complementary mol. reactivity and mol. recognition)

190060-06-1 (APLUS

Benzenesulfonamide, N-[2-hydroxy-3-[[(4-methylphenyl)sulfonyl]amino]-4-phenylbutyl]-4-methyl-N-(2-methylphenyl)-, (3S)-[partial]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1997:9928 CAPLUS DOCUMENT NUMBER: 126:144117 TITLE: 126:144117

126:144117
Preparation of sulfonamide inhibitors of aspartyl protease
Tung, Roger D., Murcko, Mark A.; Bhisetti, Govinda R. Vertex Pharmaceuticals, Incorporated, USA U.S., 87 pp., Cont.-in-part of U.S. Ser. No. 941,982, abandoned. COUDEN: USXCAM Patent English 5 INVENTOR(S): PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

					KI	ND	DATI	E							٥.	DATI	2			
	US WO	940	5639	1	A	1	1994	10317		į.	IS TO	199	3-US	1232	a	1991	10907			
		W;	K.F	, KR	BB, K2, SK,	LK,	LU,	LV,	MG,	CH, MN,	M	, i	DE,	DK, NO,	ES,	FI,	GB, PT,	HU, RO,	JP, RU,	
		RW	: AT	, BE,	CH,	DE,	DK,	ES,	FR,	GB,	GI MJ	, i	E,	IT,	LU,	MC,	NL,	PT,	SE,	
		885 885	887		A	2	1998	1223		Ē	P	998	-11	392	1	1993	0907			
	U\$	3/8,	3 / U I		CH,		1998	0721		- 11	5 1	900	-30	316	n.	1000	0222	MC,	PT,	ΙE
	US	585	5353		A		1998	0303		U	S 1	995	-42	4819	7	1995	0419			
	115	507	2118 1137		В.	1	1000	0416		U	5 1	995	-48	432	5	1995	0607			
	US	6392	2046		A B:		1999	1221		11	S 1	999	-12	1000	•	1000	0777			
PRIOR	ITY	API	LN.	INFO	. :				1	US 1 WO 1	992 993	-94 -US	198	2 8	B2 W	1992 1993	0908 0907			
										JS 1	993	-14	232	7	A2	1993 1993	1124			
										JS 1	995	-48	432	6	A3	1995 1995	0607			
OTHER	50	URCE	(5)			MAR	PAT	126:1	441	ມລ 1: 17	998	-11	539	4	A3	1998	0714			

The title compds. I [A = 3-tetrahydrofuryloxycarbonyl; D' = $\{un\}$ substituted alkyl; E = $\{un\}$ substituted aryl] are prepd. This invention also relates to pharmaceutical compns. comprising these compds. The compds. and pharmaceutical compns. of this invention are particularly

Examiner Anderson 703-605-1157

L24 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)

ΙT 190060-12-9P

190000-12-9F
RE: SPN (Synthetic preparation); PREF (Preparation)
(chem. library purifn. strategies based on principles of complementary
mol. reactivity and mol. tecognition)
190060-12-9 CAPUIS
Benzenesulfonamide, 4-methyl-N-[3-[[(4-methylphenyl)sulfonyl]amino]-2-oxo4-phenylbutyl]-N-(2-methylpropyl)-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)
well suited for inhibiting HIV-1 and HIV-2 protease activity and
consequently, may be advantageously used as antiviral agents against the
HIV-1 and HIV-2 virtuses. This invention also relates to methods for
inhibiting the activity of HIV aspartyl protease using the compds. of this
invention and methods for screening compds. for anti-HIV activity. The
title compds. inhibit HIV replication at concn. of .ltoreq. 100 nM.
17 160230-49-99 160230-75-19 160230-76-29
RI: BAC (Biological activity or effector, except adverse); BSU (Biological
study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
BIOL (Biological study); PREF (Preparation); USES (Uses)
(prepn. of sulfonamide inhibitors of aspartyl protease)

RN 160230-49-9 CAPLUS
CR Ethanediamide, N-{(15, ZR)-3-{[{4-(acetylamino)phenyl]sulfonyl](2methylpropyl)amino]-2-hydroxy-1-(phenylmethyl)propyl]-N'-(1,1dimethylethyl)- (GCI) (CA INDEX NAME)

160230-75-1 CAPLUS
Acetamide, N-[5-[[(2R, 35)-3-[[[3-(acetylamino]-4-fluorophenyl]aulfonyl]aulfonyl]aunino]-2-hydroxy-4-phenylbutyl](2-methylpropyl)amino]aulfonyl]-2-fluorophenyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

160230-76-2 CAPLUS

100230-70-2 CAPLUS 2.1,3-Bencoxadiazole-4-sulfonamide, N-[(2R,3S)-3-[[(dimethylamino)sulfonyl]amino]-2-hydroxy-4-phenylbutyl]-N-(2-methylpropyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

1007342 Page 16 07/15/2002

L24 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)

160230-78-4 CAPLUS Acetamide, N-{5-{[{(2R,3S)-3-{{(2,5-dimethoxyphenyl)sulfonyl}amino}-2-hydroxy-4-phenylbuyl}{2-methylpropyl)amino}sulfonyl}-2-fluorophenyl]-(9CI) (CA INDEX NAME)

L24 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued)

Title compds. A(B)xNHCH(D)CH(OH)CH2N(D')SOZE (A = H, Het, R1-Het, (substituted)R1-C1-6 alkyl, (substituted)R1-C2-6 alkenyl wherein R1 = C0, S0Z, COCO, OZC, etc., Het = C5-7 cycloalkyl, C5-7 cycloalkyl, C6-10 aryl, (substituted)-7-membered heterocyclyl, R2 = H, (R1)-C1-3 alkyl, B = NRZCR3CO, null wherein R3 = H, (substituted)Het or C1-6 alkyl or C2-6 alkenyl or C3-6 cycloalkyl or C5-6 cycloalkyl or C3-6 cycloalkyl or C3-6, cycloalkyl or C3-6 cyclo

Absolute stereochemistry.

160230-75-1 CAPLUS
Acetamide, N-[5-[[(2R,35)-3-[[[3-(acetylamino)-4-fluorophenyl]sulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-

Examiner Anderson 703-605-1157

L24 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1995:293723 CAPLUS
DOCUMENT NUMBER: 122:81141
TITLE: 50 FRATENT ASSIGNEE(S): 70 FRATENT

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	TENT I	NO.		ΚI	ND I	DATE			A	PPLI	CATI	ои ис	٥.	DATE				
wo	9405												A .	1993	0907			
	₩:	AT.	AU.	BB.	BG.	BR.	BY.	CA.	CH.	CZ.	DE.	nk.	ES.	FI,	GR	ни	.TP	
		KP.	KR.	KZ.	LK.	LU.	LV.	MG.	MN.	MW.	NI.	NO.	N2	PL,	PT.	RO,	DII.	
		SD,	SE.	SK.	UA.	US.	UZ,	VN	,	,	,	,		,	,	,	,,,	
	RW:								GB.	GR.	IE.	IT.	IAI.	MC,	Nt.	PT.	SE.	
		BF,	ΒJ,	CF.	CG,	CI.	CM,	GA.	GN.	ML.	MR.	NE.	SN.	TD.	TG		,	
LT	3302 65918			В		1995	0626		L	T 19	93-9	17		1993	0901			
EP	65918	31		A:	1 :	1995	0628		E	P 19	93-9	21428	3	1993	0907			
EP	65916	31		В:	1 :	1999	0407											
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IE,	IT.	LI.	LU,	MC.	NL.	PT.	SE
JP	08501	1299		T	2]	1996	0213		J.	P 19	93-50	7525	5	1993	0907			
J.D	30120	102		R:	, .	nnn	0221											
HU	71892 69116 88588	2		A2	2 1	1996	0228		H	J 19	95-68	15		1993	0907			
AU	69116	50		В2	? 1	998	0514		A	J 19	93-48	520		1993	0907			
EP	88588	17		A2	? 1	998	1223		E	P 19	98-11	3921	l	1993	0907			
EP	00300			Α.	, ,	999	U2U3											
	R:	ΑT,	BE,	CH,	DE,	DK,	ĒS,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,	ΙE
AT	17859 21315	8		Е	1	999	0415		A'	r 19	93-92	1428		1993	0907			
ES	21315	89		Т3	3 1	9991	0801		E:	5 199	93-92	1428		19930	0907			
RU	21354	96		C1	. 1	999	3827		R	J 199) 5-10	19928		19930	0907			
	30120					0000	0221		J	199	94-50	7525	,	19930	907			
SK	20136	0		Ве	. 2	0010	212		Sì	(199	95-29	13		19930	907			
CZ	28947	5		B€	2	0020)116		C	199	95-58	7		19930	907			
CN	10873	47		A	1	9940	0601		C	1 199	3-11	7370		19930	908			
CN	10613	39		В	2	0010	131											
ZA	93084	70		A	1	9940	0620		27	199	3-84	70		19931	112			
US	55853	97		A	1	9961	1217		US	199	3-14	2327		19931	124			
FI	95010	59		A	1	9950	1418		FI	199	15-10	59		19950	307			
NO 1	93084 55853 95010 95008	76		A	1	9950	508		NC	199	5-87	6		19950	307			
PRIORITY	APPL	N. I	NFO.	:				(JS 19	192-5	4198	2	A2	19920	908			
														19930				
										193-U	5845	8	¥	19930	907			
OTHER SOI	UKCEI	51:			MARP	AT 1	22:B	11111										

OTHER SOURCE(S): MARPAT 122:81141

L24 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued) methylpropyl) amino] sulfonyl] -2-fluorophenyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

160230-76-2 CAPLUS
2,1,3-Benzoxadiazole-4-sulfonamide, N-{(2R,3S)-3-[(dimethylamino)ulfonyl]amino]-2-hydroxy-4-phenylbutyl}-N-{2-methylpropyl}- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

160230-78-4 CAPLUS Acetamide, N-[5-[[[(2R,3S)-3-[[(2,5-dimethoxyphenyl)sulfonyl]amino]-2-hydroxy-4-phenylbutyl](2-methylpropyl)amino]sulfonyl)-2-fluorophenyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

L24 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS (Continued) dimesylate, which was treated with NaM3 in Me2SO to give a mixt..of (25, 45)-1,5-diphenyl-3-benzyloxy-4-azido-1-pentene and (25, 45)-1,5-diphenyl-3-benzyloxy-2,4-diazidopentane. The mixt. was reduced with LiAlH4 in THF at 0.degree.-room temp. to give (25, 45)-1,5-diphenyl-3-benzyloxy-2,4-diaminopentane. This was hydrogenolyzed in MeOH/conc. HCl over Pd/C and the product was coupled with Chz-Val-OH using N-methylnorpholine and iso-Bu chloroformate to give (25, 45)-1,5-diphenyl-3-bydroxy-2,4-bis(benzyloxycarbonylaminovalinylamino) pentane. The latter inhibited rHIV-1 protease with ICSO = 0.123 .mu.m.

IT 142286-72-49

RL: BAC (Biological artivity or effector average with ICSO = 0.123 .mu.m.

142286-72-4P
RL: BAC (Biological activity or effector, except adverse): SFN (Synthetic preparation): BIOL (Biological study): PREP (Preparation) (prepn. of, as retroviral protease inhibitor)
142286-72-4 CAPLUS
Benzenesulfonamide, N,N'-[2-hydroxy-1,3-bis(phenylmethyl)-1,3-propanediyl)bis[4-methyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

L24 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1992:531563 CAPLUS DOCUMENT NUMBER: 117:131563 TITLE: Prenartic of building the company of the

117:131563
Preparation of hydroxydiaminoalkanes and amino acid and peptide derivatives thereof as retroviral protease inhibitors
Dreyer, Geoffrey Bainbridge; Boehm, Jeffrey Charles; Chenera, Balan
SmithKline Beecham Corp., USA
PCT Int. Appl., 47 pp.
CODEN: PIXXO2

INVENTOR(S):

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND DATE APPLICATION NO.	DATE

WO 9200750	A1 19920123 WO 1991-US4757	19910703
₩: AU, CA,	JP, KR, US	
RW: AT, BE,	CH, DE, DK, ES, FR, GB, GR, IT, LU, NL,	SE
CA 2086414	AA 19910703 CA 1991-2086414	19910703
AU 9182334	A1 19920204 AU 1991-82334	19910703
EP 538366		19910703
R: AT, BE,	CH, DE, DK, ES, FR, GB, GR, IT, LI, LU,	NL. SE
JP 05508855		19910703
ZA 9105269	A 19920826 ZA 1991-5269	19910708
PRIORITY APPLN. INFO.		19900706
		19910703
OTHER SOURCE(S):	MARPAT 117:131563	

Title compds. [I and II; XI, X2 = ABn; n = 0-2; A = H, Ph3C, CH0, (substituted) alkylcarbonyl, arylcarbonyl, heterocyclylcarbonyl, etc.; B = Ala, Asn, Cys, Tcp, Gly, Gln, Ile, Leu, Met, Phe, Pro, Ser, Thr, Val, His, trifluorocalanyl; RI, R2 = CH2RI2, H, cycloalkyl, (Cl, F, oo, Ho-substituted) alkyl; RI2 = NHA, R5(R6R7C)m, R85(O)n, (substituted) amino, imidazolyl, N-benzimidazolyl, alkynyl, alkenyl, azetidinyl, pyrrolidinyl, piperidinyl, morpholinyl, etc.; R5-7 = H, Cl, F, OH, alkoxy (substituted) alkyl; Ph, naphthyl, heterocycle, or 2 of R5-7 may form a ring systems R8 = pyridyl, furly, benzisoxazolyl, etc.] were prepd. Thus, D-arabitol in pyridine was treated with p-toluenesulfonyl chloride at ice temp.-room temp. to give 74% ditosylate, which was treated with NaH and then PhCH2Br in THF to give (2R,4R)-1,2,4,5-dianhydro-3-benzyloxyarabitol. The latter was treated with CulfPhli in THF at -78.degree. to 50.degree. to give 82% (2R, 4R)-1,5-diphenyl-3-benzyloxy-2,4-dihydroxypentane. This was treated with MeSO2Cl in pyridine at 0.degree.-room temp. to give the

L24 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1991:450304 CAPLUS DOCUMENT NUMBER: 115:50304 Preparation of amino a

115:50304
Preparation of amino acid and peptide derivatives and related compounds as retroviral protease inhibitors
Kempf, Dale J.; Norbeck, Daniel W.; Erickson, John W.;
Codacovi, Lynn M.; Sham, Hing Leung; Plattner, Jacob INVENTOR (S):

PATENT ASSIGNEE(S): SOURCE: Abbott Laboratories, USA Eur. Pat. Appl., 193 pp. CODEN: EPXXDW

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English 6

PATENT NO.	KIND	DATE		APPLICATION NO. DATE
				ATTECATION NO. DATE
EP 402646	A1	19901219		EP 1990-109319 19900517
EP 402646	B1	19980722		B1 1550-105515 15500517
R: AT,	BE, CH, DE		FR.	GB, GR, IT, LI, LU, NL, SE
US 5142056	A	19920825	,	US 1990-518730 19900509
EP 839798	A2	19980506		EP 1997-119700 19900517
EP 839798	A3	19981028		DI 1551-115700 15500517
R: AT,	BE. CH. DE		FR.	GB, GR, IT, LI, LU, NL, SE
AT 168677	E	19980815	,	AT 1990-109319 19900517
ES 2119737	Т3	19981016		ES 1990-109319 19900517
AU 9055711	A1	19901129		AU 1990-55711 19900518
AU 645493	B2	19940120		10 1550 55111 15500518
IL 94444	A1	19990312		IL 1990-94444 19900520
CA 2017252	AA	19901123		CA 1990-2017252 19900522
JP 03128335	A2	19910531		JP 1990-133684 19900523
JP 2963910	B2	19991018		01 1330 133004 13300323
US 5354866	A	19941011		US 1993-121673 19930914
US 5541334	A	19960730		US 1995-409380 19950323
US 5597926	A	19970128		US 1995-409767 19950323
US 5670675	A	19970923		US 1995-409365 19950323
US 5616714	A	19970401		US 1995-410260 19950324
US 5648497	A	19970715		US 1995-410623 19950324
US 5837873	A	19981117		US 1995-410162 19950324
US 5539122	A	19960723		US 1995-410996 19950327
US 5552558	A	19960903		US 1995-411032 19950327
US 5696270	A	19971209		US 1995-411140 19950327
US 5580984	A	19961203		US 1995-412253 19950328
US 5679797	A	19971021		US 1995-412244 19950328
US 5583232	A	19961210		US 1995-412821 19950329
US 5597927	A	19970128		US 1995-412438 19950329
US 5674882	A	19971007		US 1995-413136 19950329
US 5583233	A	19961210		US 1995-413290 19950330
US 5625072	A	19970429		US 1995-415827 19950403
US 5591860	A	19970107		US 1995-416272 19950404
US 5597928	A	19970128		US 1995-416607 19950404
US 5608072		19970304		US 1995-416259 19950404
US 5565418		19961015		US 1995-417304 19950405
US 5659044		19970819		US 1995-417165 19950405
US 5659045		19970819		US 1995-417295 19950405
US 5616720		19970401		US 1995-418056 19950406
US 5635523		19970603		US 1995-417879 19950406
US 5892052		19990406		US 1995-418031 19950406
US 5554783	Α	19960910		US 1995-418978 19950407

1007342 Page 18 07/15/2002

L24 ANSWER 6 OF 6 CAPLUS	COPYRIGHT	2002		
US 5541206 A	19960730		US 1995-42338	7 19950425
PRIORITY APPLN. INFO.:			1989-355945	A 19890523
		US	1989-405604	A 19890908
		US	1989-456124	A 19891222
		US	1990-518730	A 19900509
		US	1983-355945	B2 19830523
		EP	1990-109319	A3 19900517
		US	1990-616170	B2 19901120
		US	1991-746020	B2 19910815
		US	1991-777626	A1 19911023
		υs	1992-880729	B1 19920508
		US	1992-998114	B2 19921229
		US	1993-164979	B1 19930207
		US	1993-121673	A3 19930914
		US	1993 159597	B3 10031202
		บร	1994-270210	A3 19940823
		US	1994-358648	A3 19941219

OTHER SOURCE(S):

$$Q^{1_{-}} = Q^{1_{-}} = Q^{1$$

AB A-X-B [A,B = substituted amino, carbonyl, imino, alkyl, acyl, heterocyclyl, heterocyclylalkyl; X = CO, CHRRIR2, CINHORI, C(OH) CO2H, CH(OH), P(O)H, NORI, SO, SO2, CH(OH)CHSH, CHSH, CHESO2CH2, P(O)ORI, CHESOCCH2, Q1, Q2, Q3, etc.; R1,R2 = H, alkyl, hydroxyalkyl, alkoxyalkyl; R3,R4 = H, alkyl, alkoxyalkyl], were prepot. Thus, (25,3R,45,55)-2,5-diamino-3,4-dihydroxy-1,6-diphenylhexane (prepn. given) in dioxane was treated with N-I (benzyloxycarbonylvalyl) loxyl succinimide (prepn. given) to give (25,3R,45,55)-2,5-bis[(benzyloxycarbonylvalyl)amino]-3,4-dihydroxy-1,6-diphenylhexane. The latter inhibited HIV-13B in M9 cells with IC50 = 0.015-0.027. mm.M.

17 13460-73-2 CM.

RI: BAC (Biological activity or effector, except adverse); SFN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. of, as retroviral protease inhibitor)

RN 13460-73-2 CAPUS

CN Pentitol, 1,2,4,5-tetradeoxy-2,4-bis[(methylsulfonyl)amino]-1,5-diphenyl-(9CI) (CA INDEX NAME)

L24 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS

1007342 Page 19 07/15/2002

=> log y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL

26.73

879.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE
ENTRY
SESSION
-3.72
-4.96

STN INTERNATIONAL LOGOFF AT 09:13:18 ON 15 JUL 2002